

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

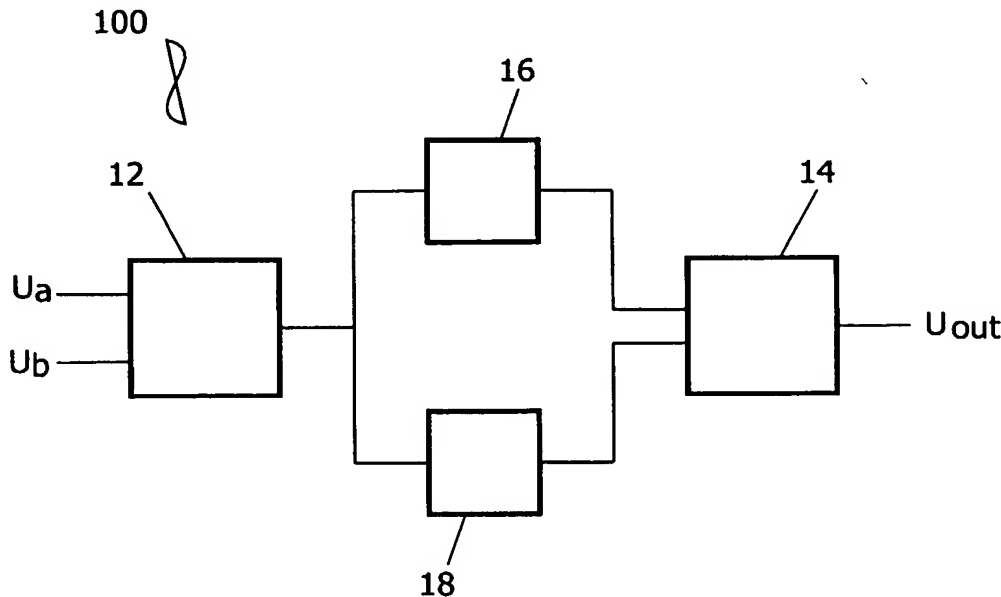
PCT

(10) International Publication Number
WO 2004/107560 A1

- (51) International Patent Classification⁷: **H03D 13/00** (72) Inventor; and
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(21) International Application Number: **PCT/IB2004/050705** [DE/DE]; c/o Philips Intellectual Property & Standards
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(22) International Filing Date: **14 May 2004 (14.05.2004)** (74) Agent: **MEYER, Michael**; Philips Intellectual Property &
Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).
(25) Filing Language: **English** (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
(26) Publication Language: **English** AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
(30) Priority Data: **03101533.2** **27 May 2003 (27.05.2003)** **EP** GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
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PROPERTY & STANDARDS GMBH [DE/DE]; Stein- TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
damm 94, 20099 Hamburg (DE). ZW.
(71) Applicant (for all designated States except DE, US): (84) Designated States (unless otherwise indicated, for every
KONINKLIJKE PHILIPS ELECTRONICS N.V. kind of regional protection available): ARIPO (BW, GH,
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
(NL). ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: **PHASE DETECTOR AND METHOD OF PHASE DETECTION**



(57) Abstract: In order to provide a phase detector and a method of phase detection which are distinguished by greater sensitivity and simple implementability, at least one differential signal of two input signals (U_a ; U_b) may be formed over at least one predefined period by means of a first subtractor (12), at least one maximum value of the at least one differential signal may be detected by means of a first peak detector (16) and at least one minimum value of the at least one differential signal may be detected by means of a second peak detector (18) and at least one further differential signal (U_{out}) may be formed from the at least one maximum value and the at least one minimum value by means of a second subtractor (14).

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European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— *with international search report*